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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/769,373	01/30/2004	Toshihiko Tsuji	1232-5269	7890	
27123 7	590 10/06/2005		EXAM	EXAMINER	
MORGAN & FINNEGAN, L.L.P. 3 WORLD FINANCIAL CENTER NEW YORK, NY 10281-2101			RUTLEDGE	RUTLEDGE, DELLA J	
			ART UNIT	PAPER NUMBER	
			2851		
			DATE MAILED: 10/06/2009	DATE MAILED: 10/06/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
Office Action Summary		10/769,373	TSUJI, TOSHIHIKO	
		Examiner	Art Unit	
		D. Rutledge	2851	
Period f	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence address	
WHI0 - Extending after a	HORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DEPARTMENT OF	DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be till will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDON	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).	
Status				
1)🛛	Responsive to communication(s) filed on 28 J	<u>lune 2005</u> .		
2a)□	This action is FINAL . 2b)⊠ Thi	is action is non-final.		
3)[Since this application is in condition for allowa	•		
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposit	tion of Claims			
4)🖂	Claim(s) 1,2,5-18 and 21 is/are pending in the	e application.		
	4a) Of the above claim(s) is/are withdra			
5)	Claim(s) is/are allowed.			
•	Claim(s) <u>1,2,5-18 and 21</u> is/are rejected.			
	Claim(s) is/are objected to.			
8)	Claim(s) are subject to restriction and/	or election requirement.		
Applicat	tion Papers			
9)[The specification is objected to by the Examin	er.		
10)	The drawing(s) filed on is/are: a) ac	cepted or b) objected to by the	Examiner.	
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is o	bjected to. See 37 CFR 1.121(d).	
11)	The oath or declaration is objected to by the E	examiner. Note the attached Office	e Action or form PTO-152.	
Priority	under 35 U.S.C. § 119			
•	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documen		a)-(d) or (f).	
	2. Certified copies of the priority documen	its have been received in Applica	tion No	
	3. Copies of the certified copies of the price	ority documents have been receiv	ved in this National Stage	
	application from the International Burea	,		
* ;	See the attached detailed Office action for a lis	t of the certified copies not receiv	ed.	
Attachmei	• •			
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summar Paper No(s)/Mail [
3) Minfor	rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date 5/27/05		Patent Application (PTO-152)	

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, 5, 6, 9, 10, 15 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Kim (US Pat. No. 5,695,277).

The reference a light source and illumination system that provide uniform and parallel, and condensed light. The arrangement has source 1; first mirror which has an aperture that is symmetrical about the optical axis and light from the second mirror 4 (which is also symmetric about the optical axis) is reflected through the aperture of the first mirror. The light is collimated by the lens 6. See figure 2. See the text at column 2, lines 43 – 56; column 4, lines 40 – 43 and line 53 to column 4, line 10 for condensing, overlapping, and mirror shape.

Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 1, 2, 5 18 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim (US Pat. No. 5,695,277) in view of Ota (US 6,485,153) and the Prior of Fig. 11 of current application.

It is not clear whether the Kim reference has rotational symmetric mirrors. The applicant is trying to solve the problem of uniform light, which is not provided by the

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prior art reference of fig. 11. One of ordinary skill in the art would be motivated to rotational mirror as taught by the prior art, but symmetrical mirror arranged as taught by Kim to provide uniform illumination. One of ordinary skill in the art would provide the other components used in the illumination system for exposing an image of a patterning means onto a substrate, such as the integrator for providing plural sources, condensing means, etc., as shown in the prior art of fig. 11. One of ordinary skill in the art would provide cooling means for mirrors 3 and 4 of the Kim reference to control temperatures to prevent adverse conditions. Ota teaches the use cooling means for paraboloid mirrors. Kim teaches using rods to fix the mirrors using spokes or rods, see column 3, lines 40-43.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sato et al. (US Pat. No. 4,861,148) has mirror arrangements in which a radiation form a second mirror are reflected through the aperture of a first mirror.

Response Data

Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. Rutledge whose telephone number is (571) 272-2127. The examiner can normally be reached on Mon - Thurs, 6:00 AM - 4:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Rutledge Primary Examiner

Art Unit 2851

dr 10/3/05